

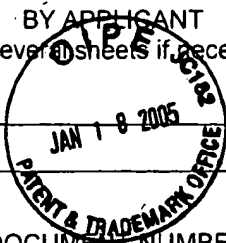
FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P23685Application No.
10/646,735

INFORMATION DISCLOSURE STATEMENT

BY APPLICANT

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Applicant
Hiroshi NOMURAFiling Date
August 25, 2003Group
2851

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	4 7 9 1 4 4 1	12/13/88	NISHI et al.			
	4 4 5 1 1 2 9	05/29/84	IKARI et al.			
	3 3 7 7 4 2 7	04/09/68	FISCHER			
	5 7 1 5 4 8 2	02/03/98	WAKABAYASHI			
	4 5 9 7 6 5 7	07/01/86	WAKABAYASHI			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
8 - 3 1 3 7 9 0	11/29/96	JAPAN			
6 - 2 3 0 2 6 3	08/19/94	JAPAN			
10 - 2 5 4 0 5 4	09/25/98	JAPAN			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	English Language Abstract of JP 8-313790.
	2	English Language Abstract of JP6-230263.
	3	English Language Abstract of JP 10-254054.
	4	English Language Abstract of JP 2003-149723.

EXAMINER

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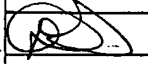
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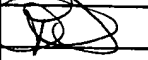
U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CL AS S	SUBCLASS	FILING DATE IF APPROPRIATE
	4 9 5 2 9 5 5	08/28/90	IWATA et al.			
	4 9 3 7 6 0 9	06/26/90	WAKABAYASHI et al.			
	5 9 0 9 6 0 0	06/01/99	KOSAKO			
	4 5 4 5 6 6 1	10/08/85	HAMAGUCHI et al.			
	5 7 9 0 9 1 1	08/04/98	REIBL			
	5 7 9 0 9 0 7	08/04/98	REIBL			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	0 5 9 8 7 0 3	05/25/94	E.P.O			
9	- 1 5 6 8 2	01/17/97	JAPAN			
	0 8 1 0 4 6 6	03/12/97	E.P.O			
	3 3 1 7 9 9 9	11/24/83	GERMANY			
	1 9 6 2 3 0 6 6	12/11/97	GERMANY			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	English language Abstract of JP 9-15682.

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